

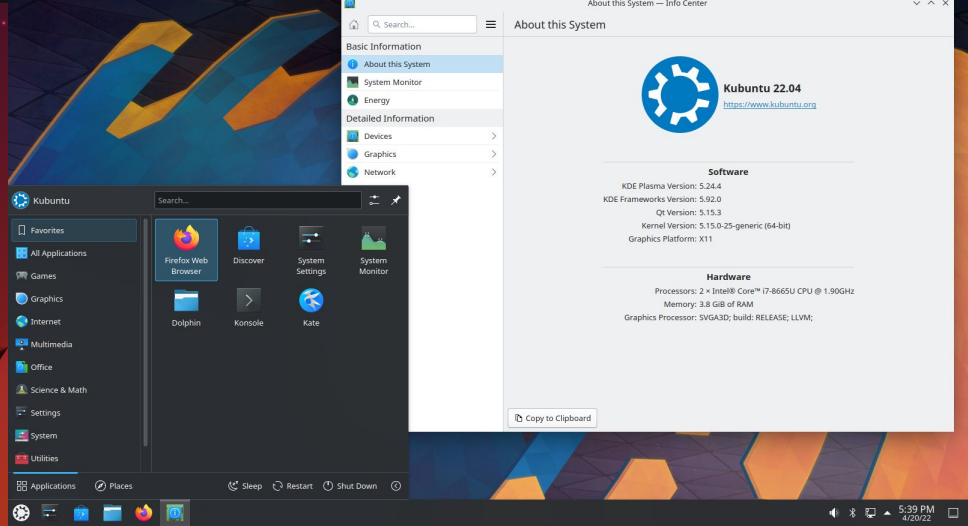
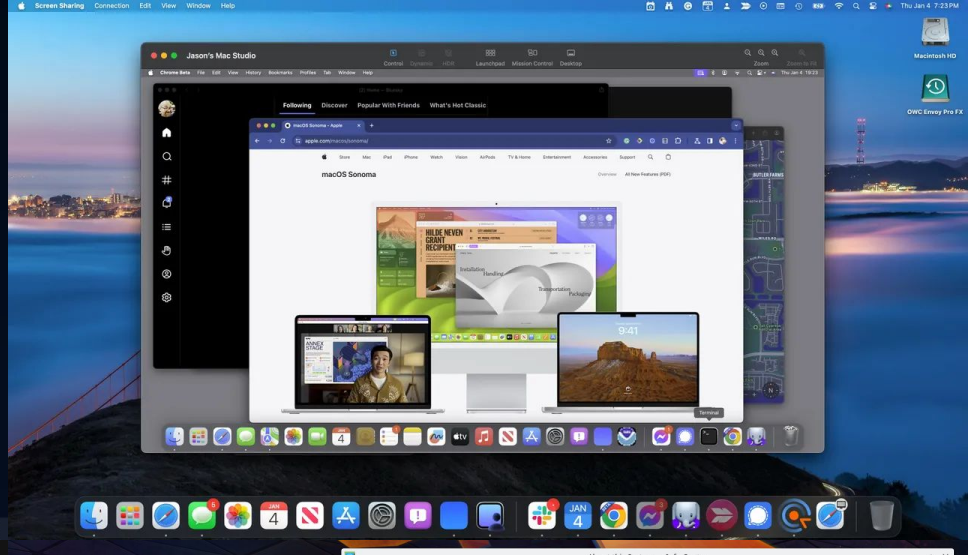
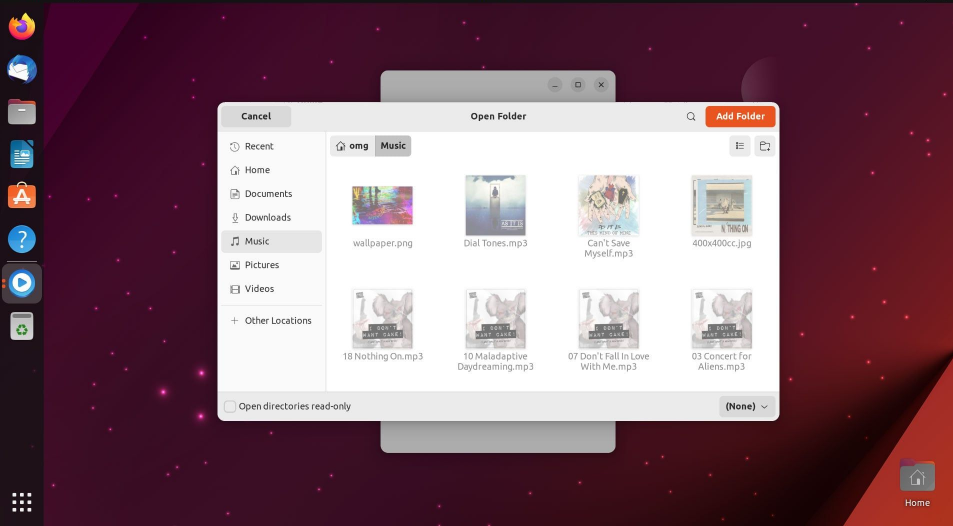
Introduction to Linux

Meeting 1: Theoretical introduction

Speaker: Iulian Rotaru



What is Linux?



Why would we care?

Programmers

- Servers
- Extensibility
- Tooling

Everyone:

- Resource usage
- Privacy
- It's not Windows

What do we mean by “Operating System”?

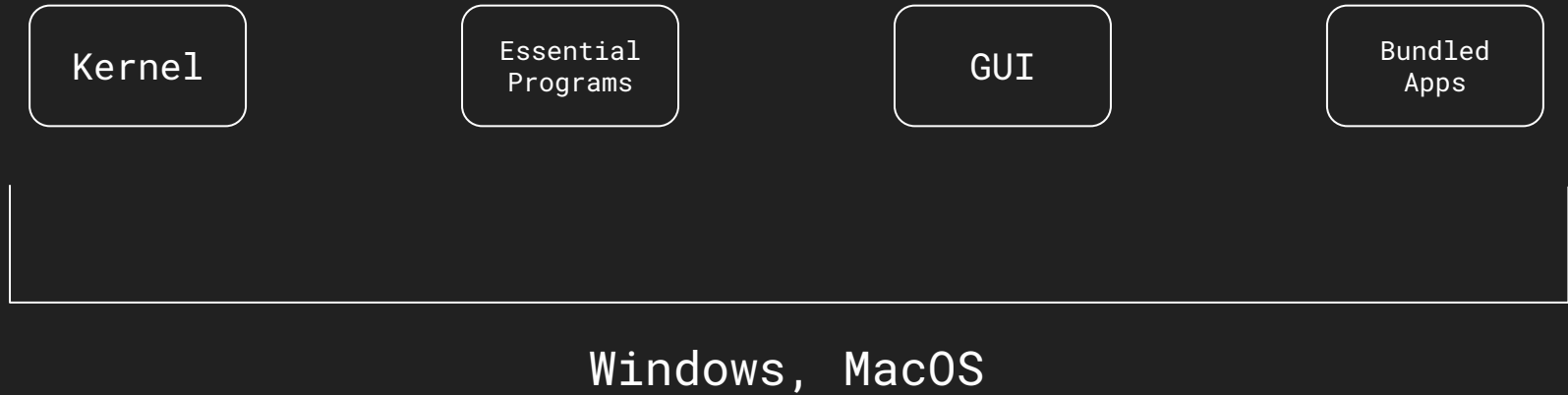
Kernel

Essential
Programs

GUI

Bundled
Apps

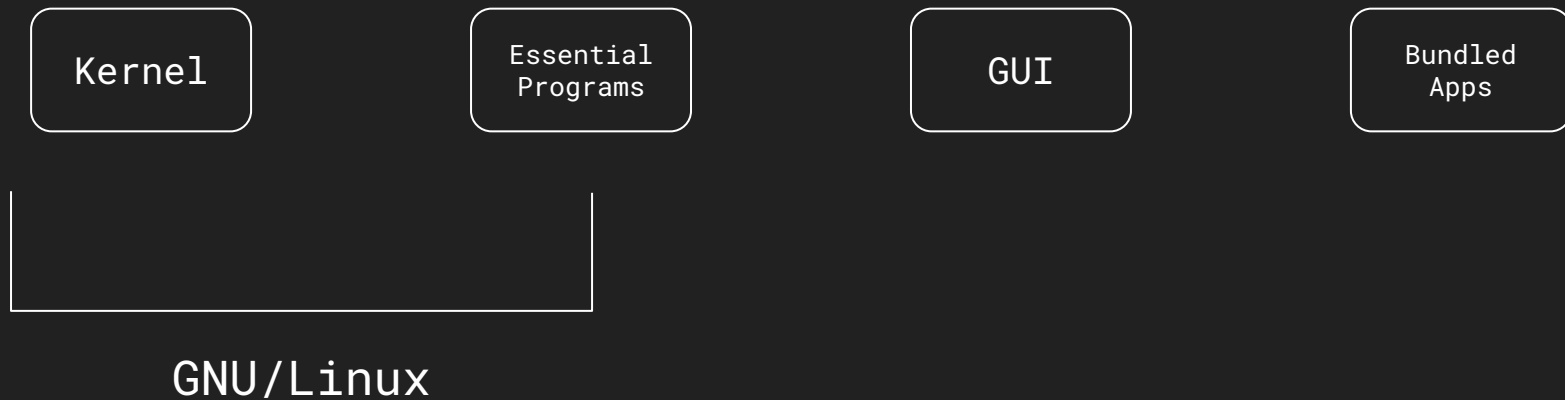
Main differences: Modularity

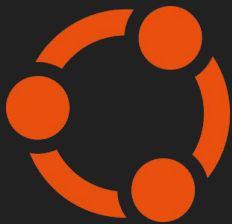


Main differences: Modularity



Main differences: Modularity





Distros



Main differences: Modularity



Main differences: Open Source

- Inspectable code
- Community driven
- Cannot disappear

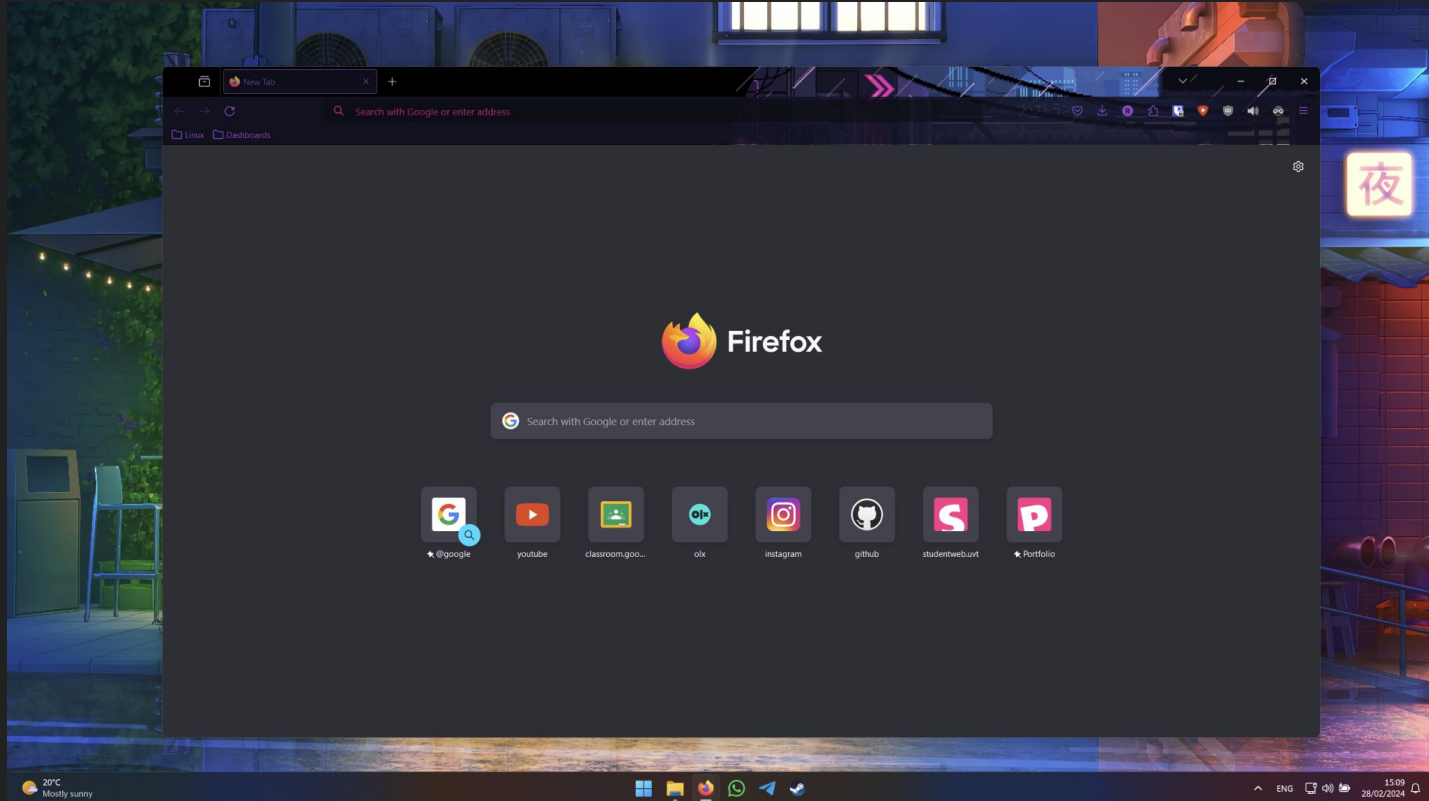
Main differences: Software

Software selection

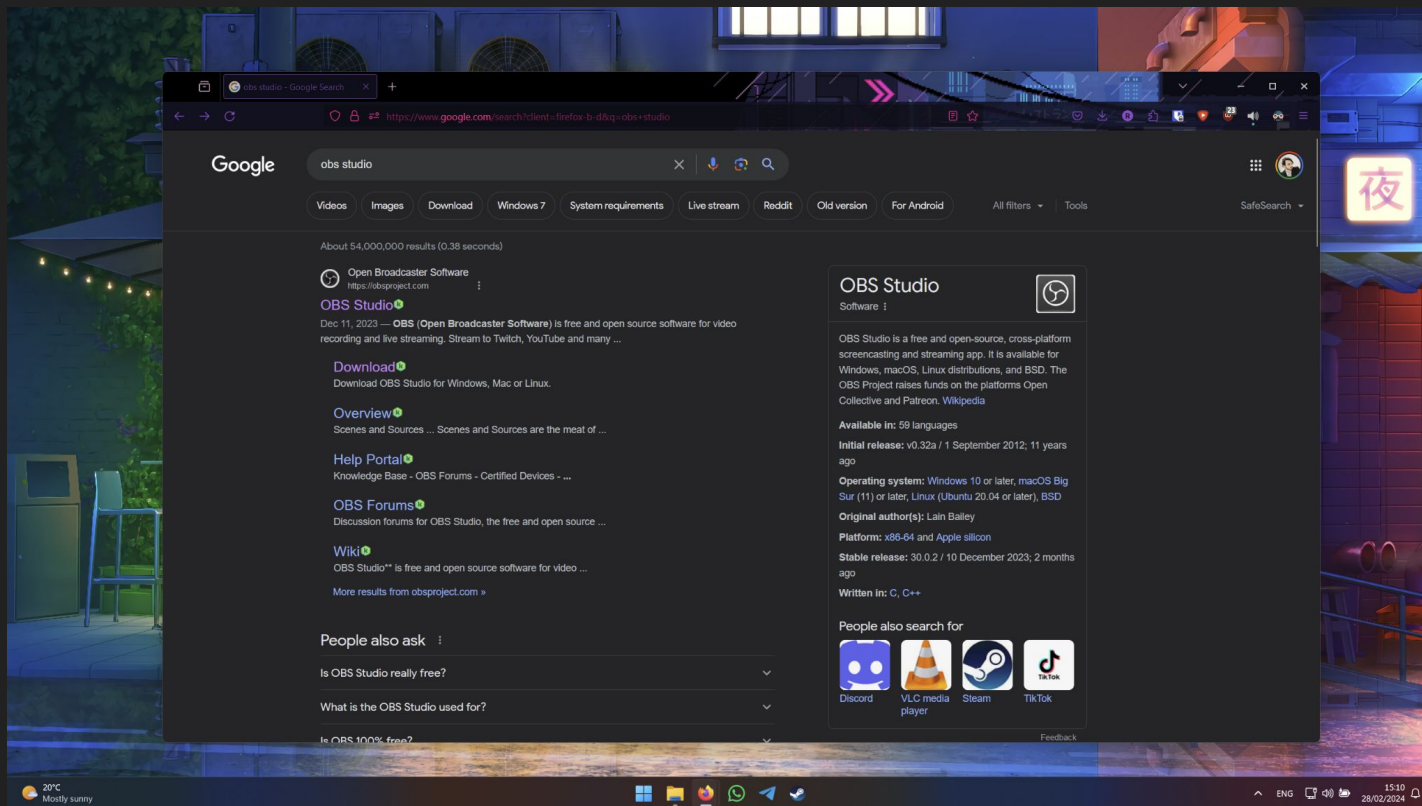
Main differences: Software

Software installation

Software installation: Windows



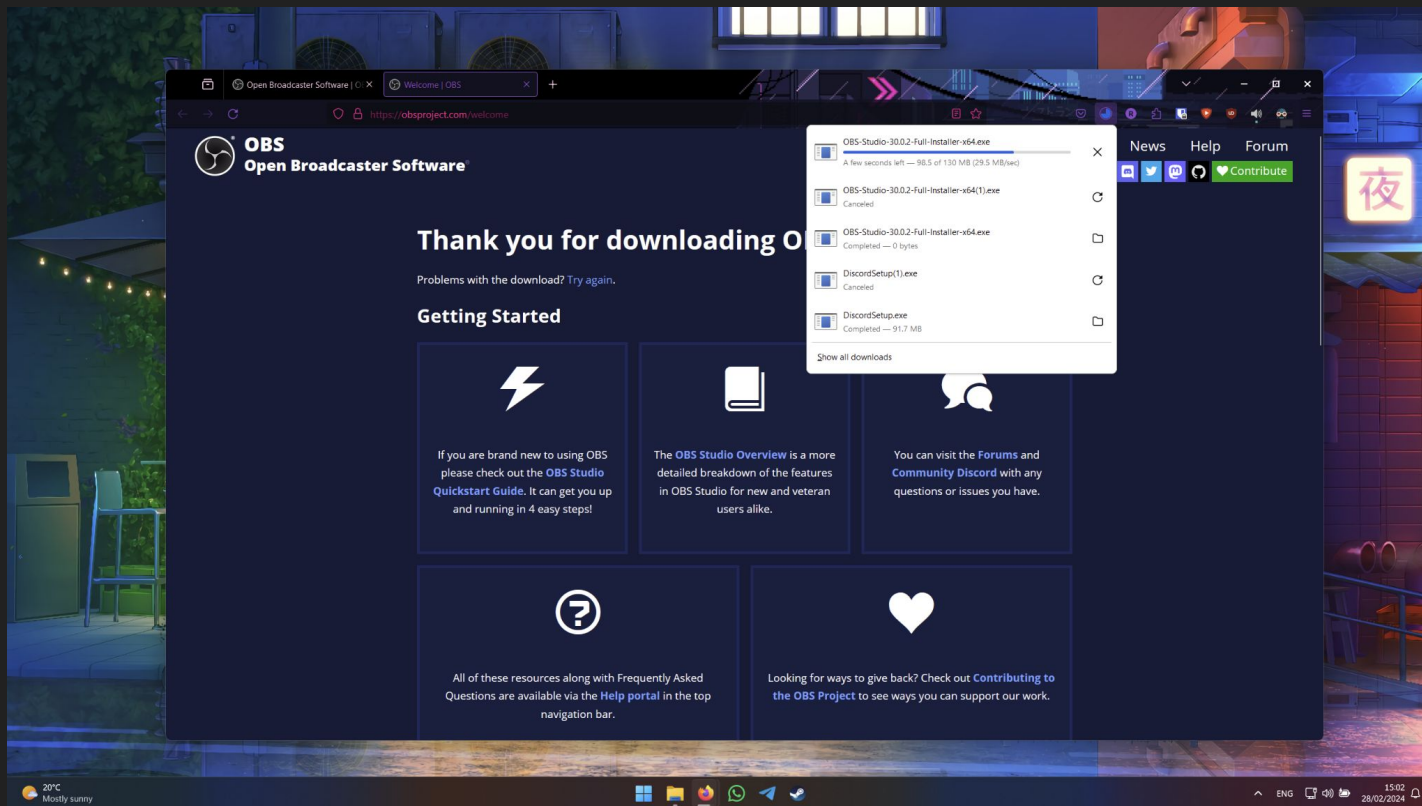
Software installation: Windows



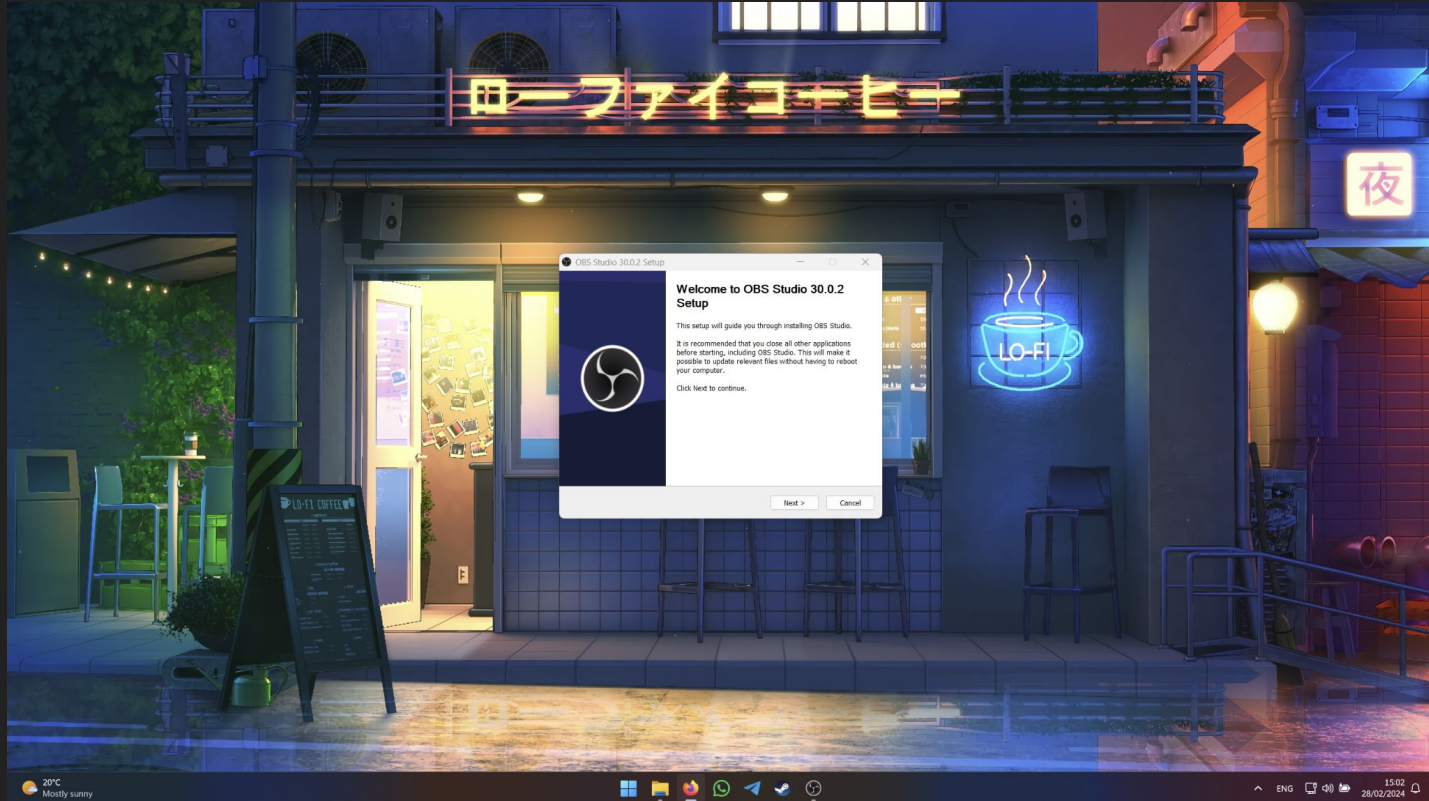
Software installation: Windows



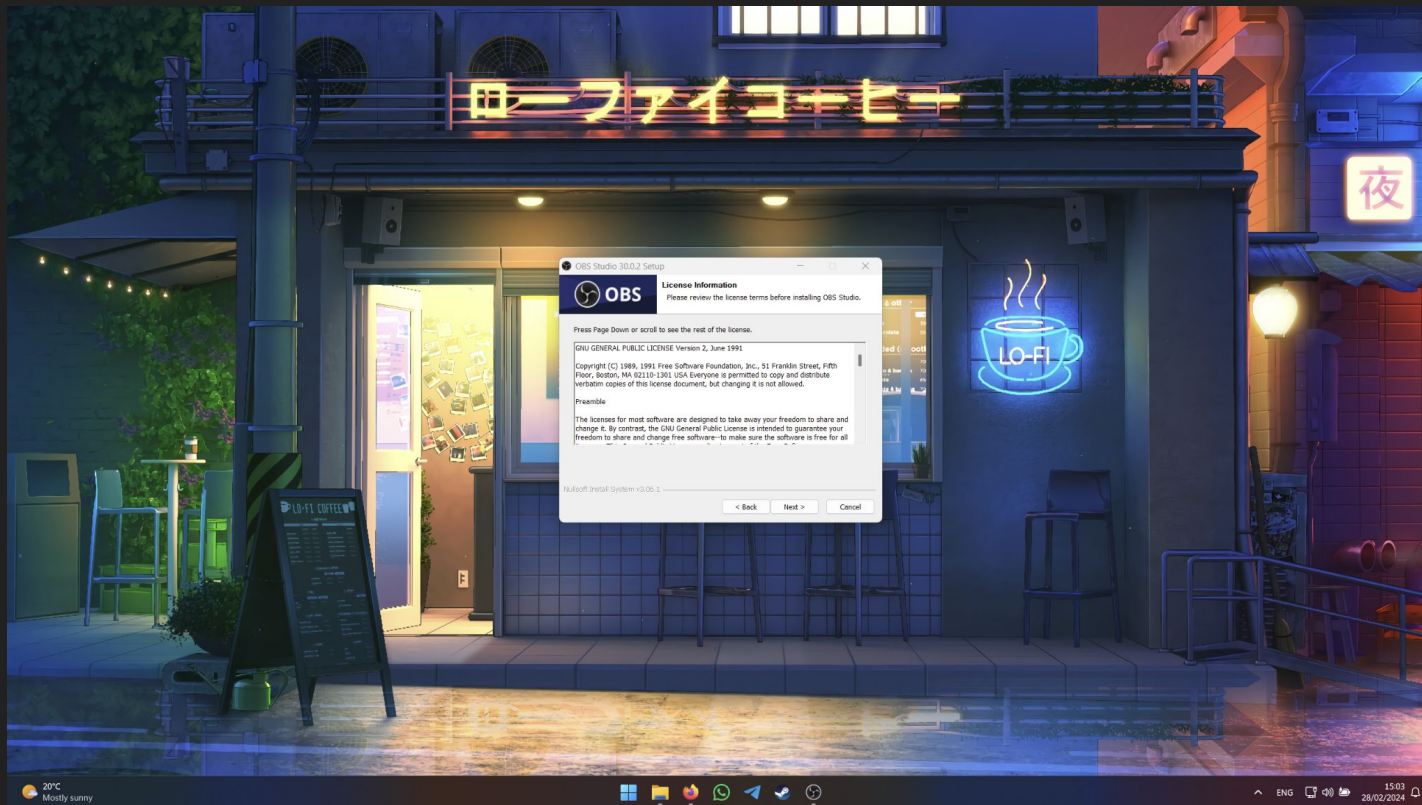
Software installation: Windows



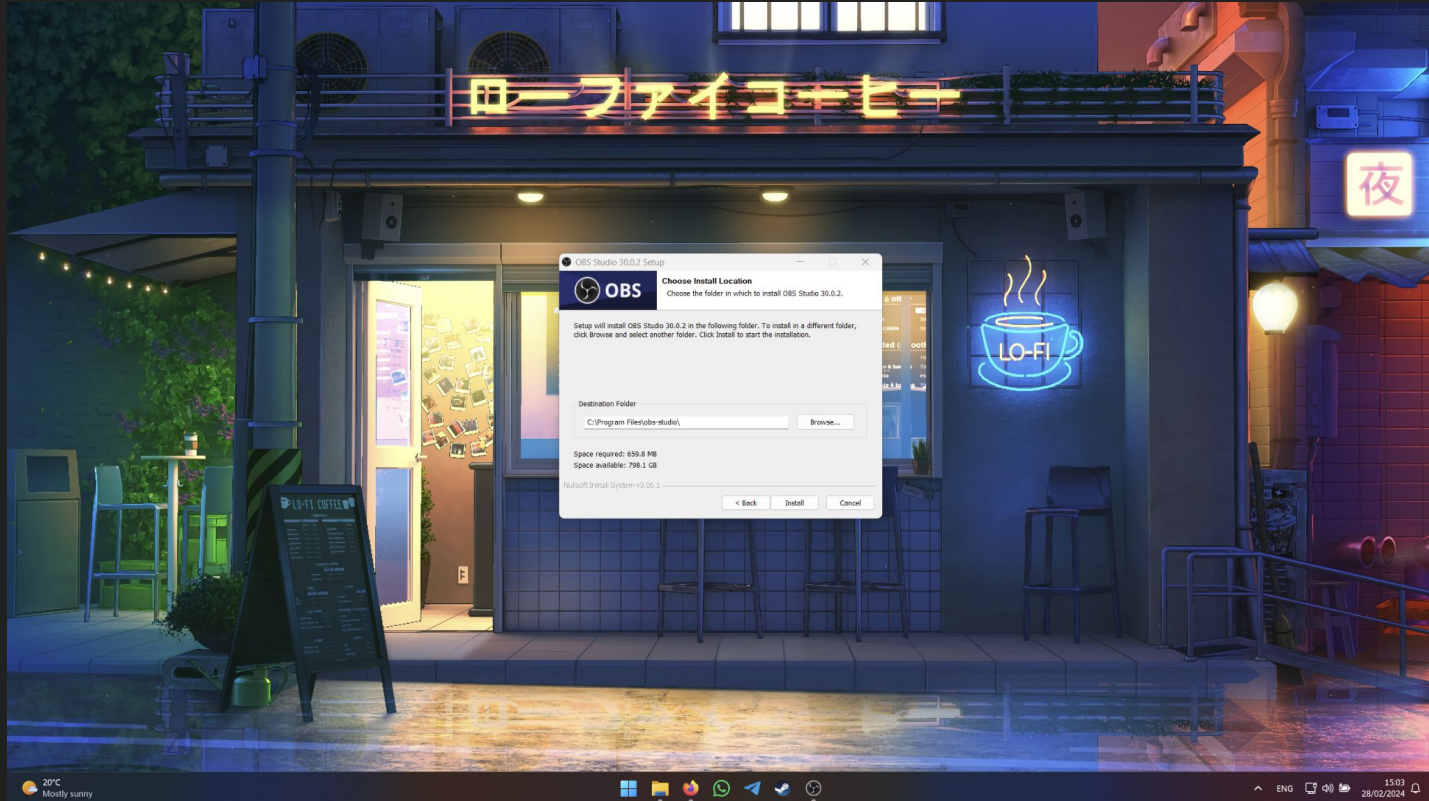
Software installation: Windows



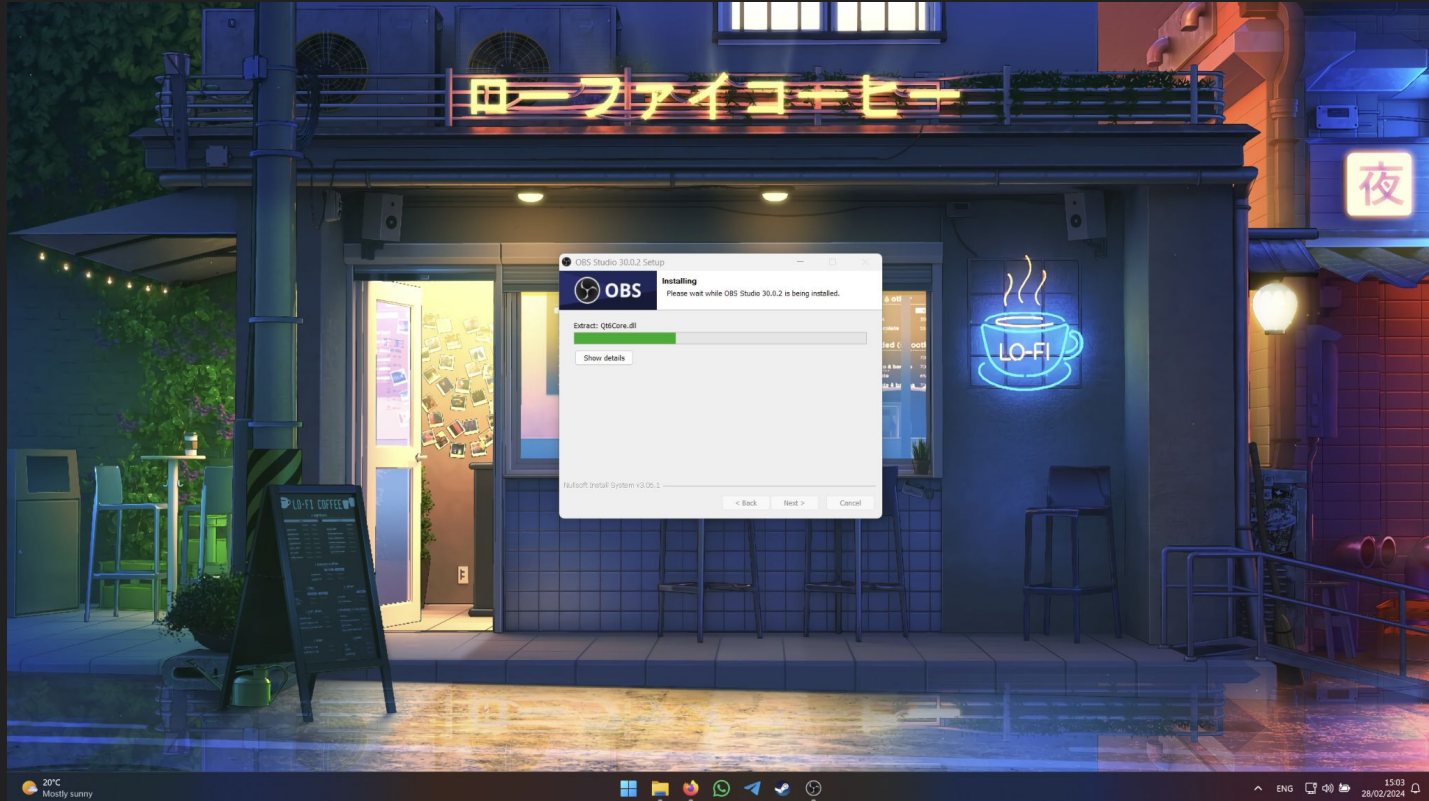
Software installation: Windows



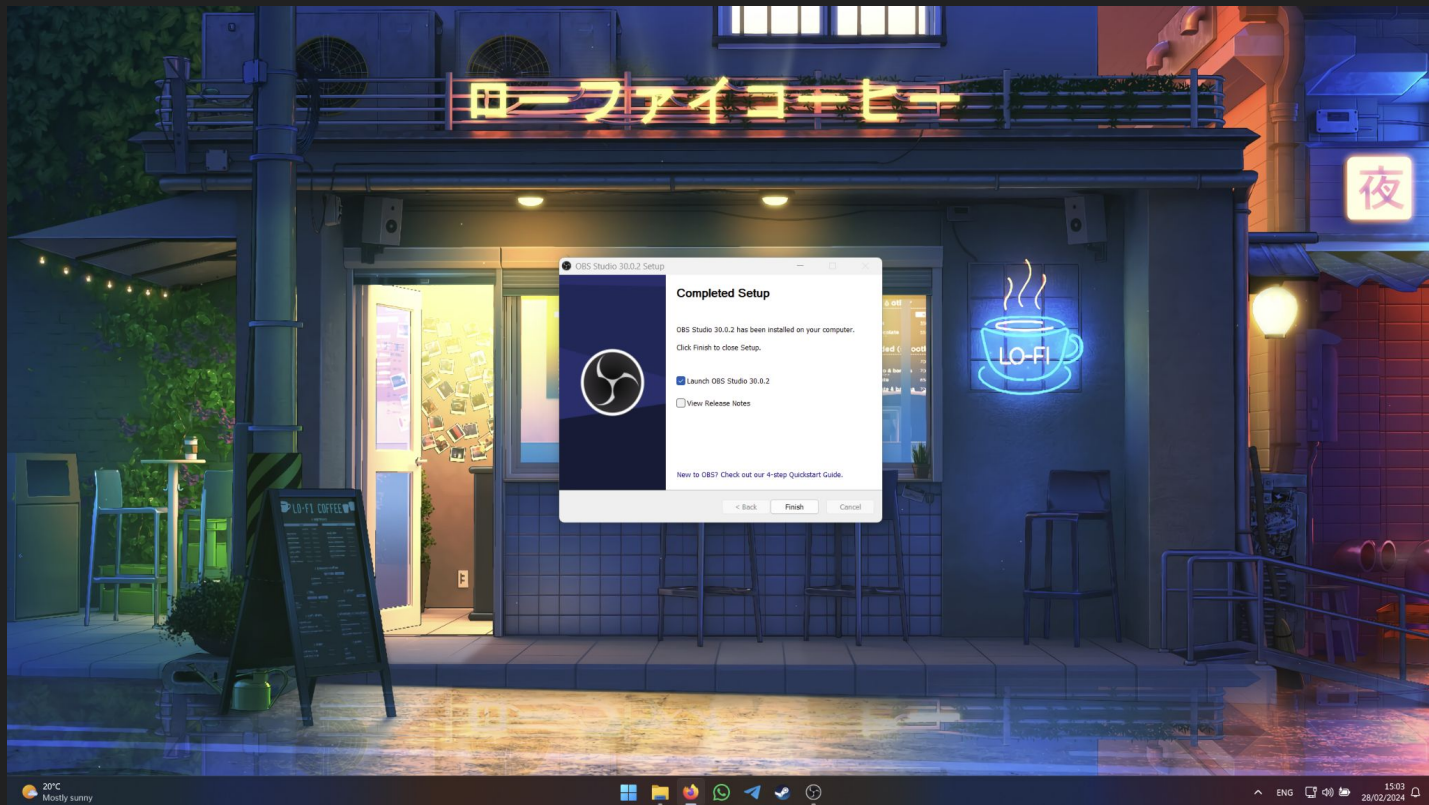
Software installation: Windows



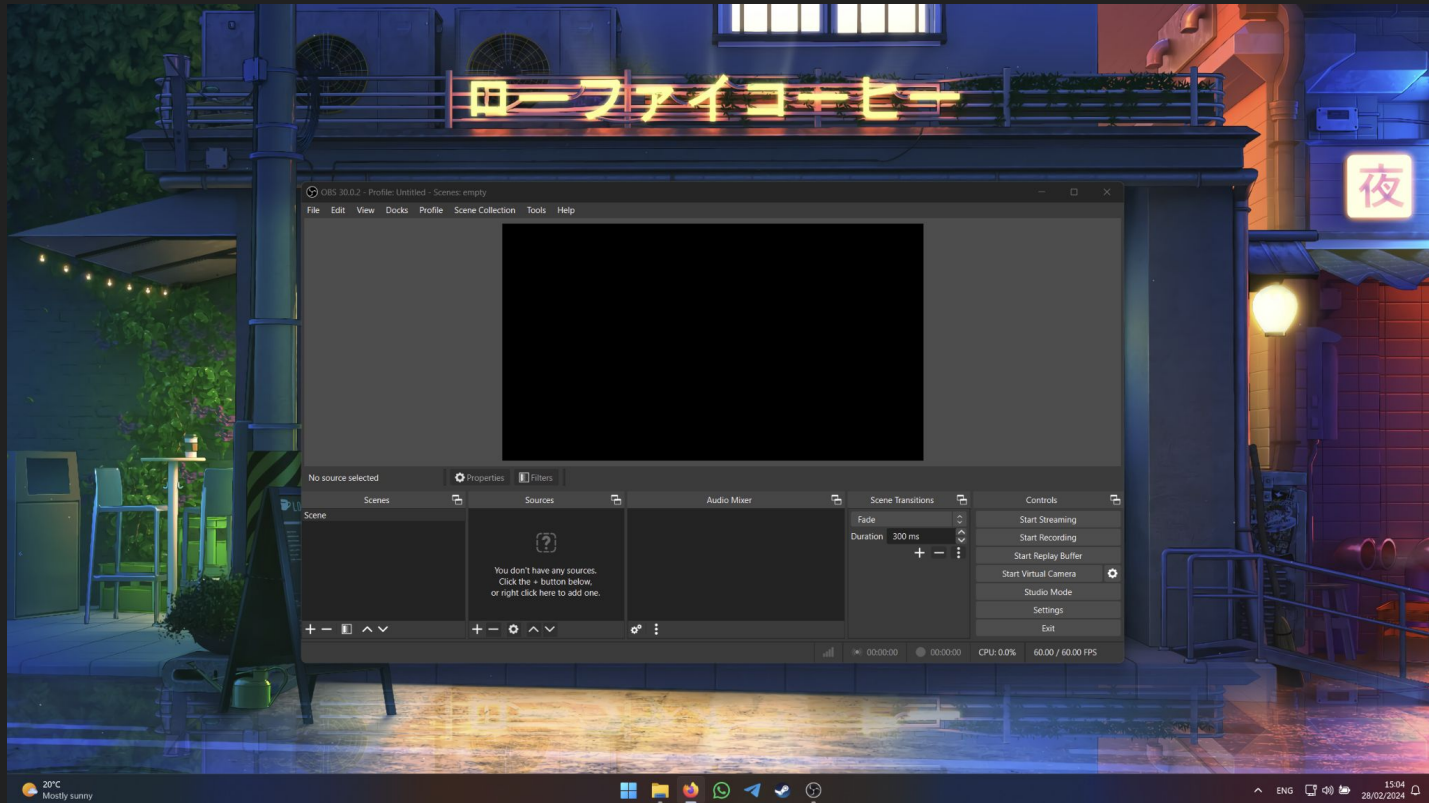
Software installation: Windows



Software installation: Windows



Software installation: Windows



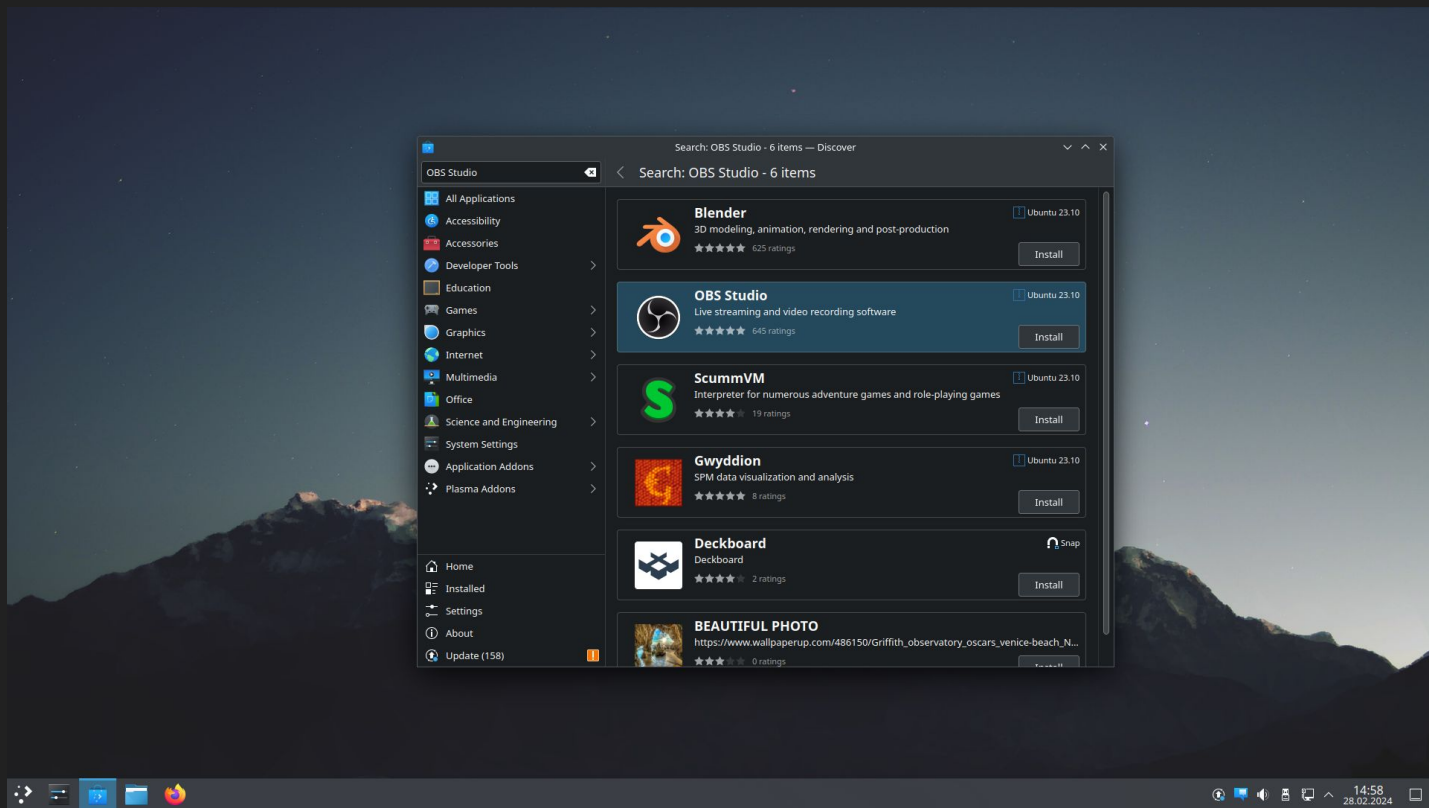
Software installation: Windows

- 10 steps
- 3 critical security issues

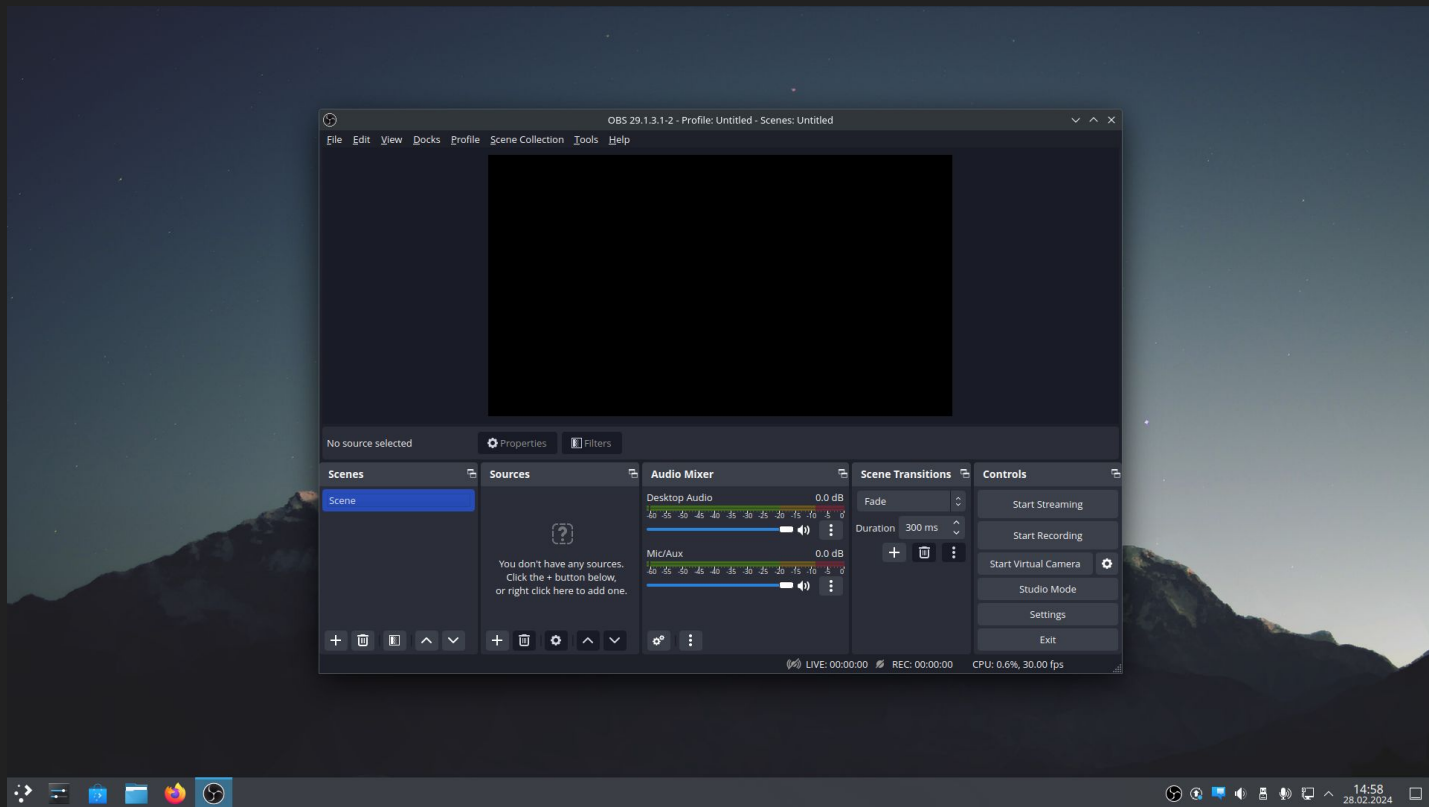
Software installation: Linux



Software installation: Linux



Software installation: Linux



Software installation: Linux

- 3 steps
- 0 critical security issues

Software installation: Linux

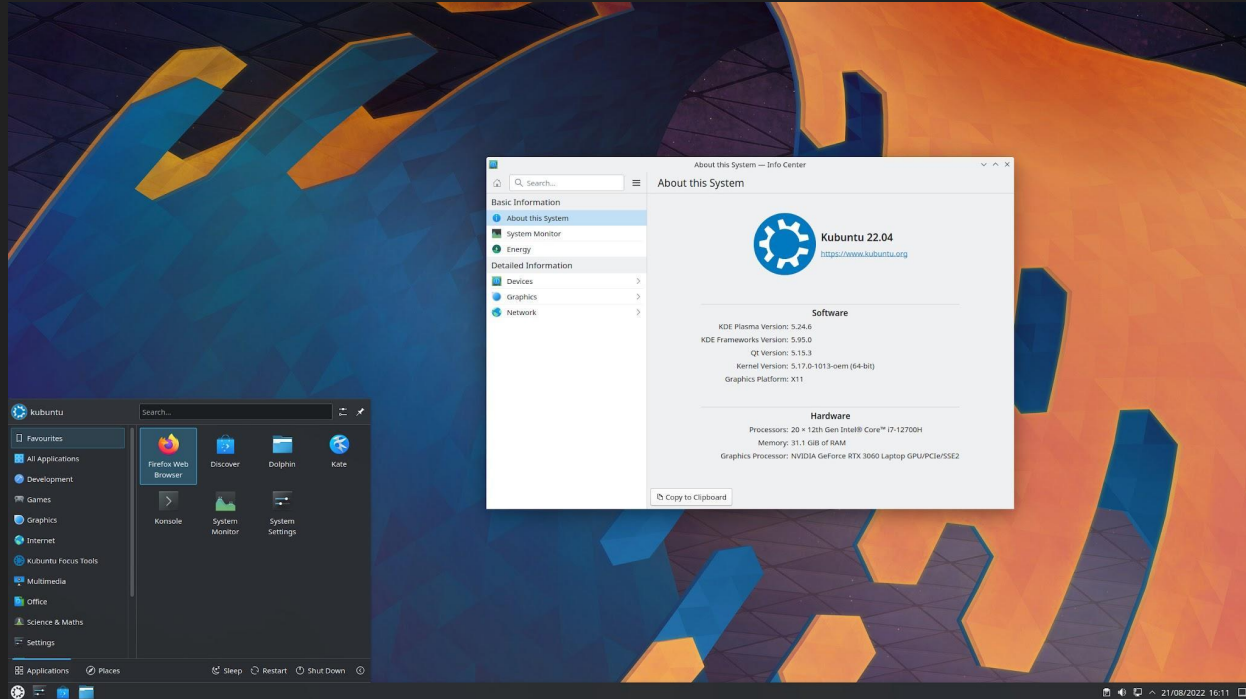
Alternatively...

```
sudo apt install obs-studio
```

Desktop Environments



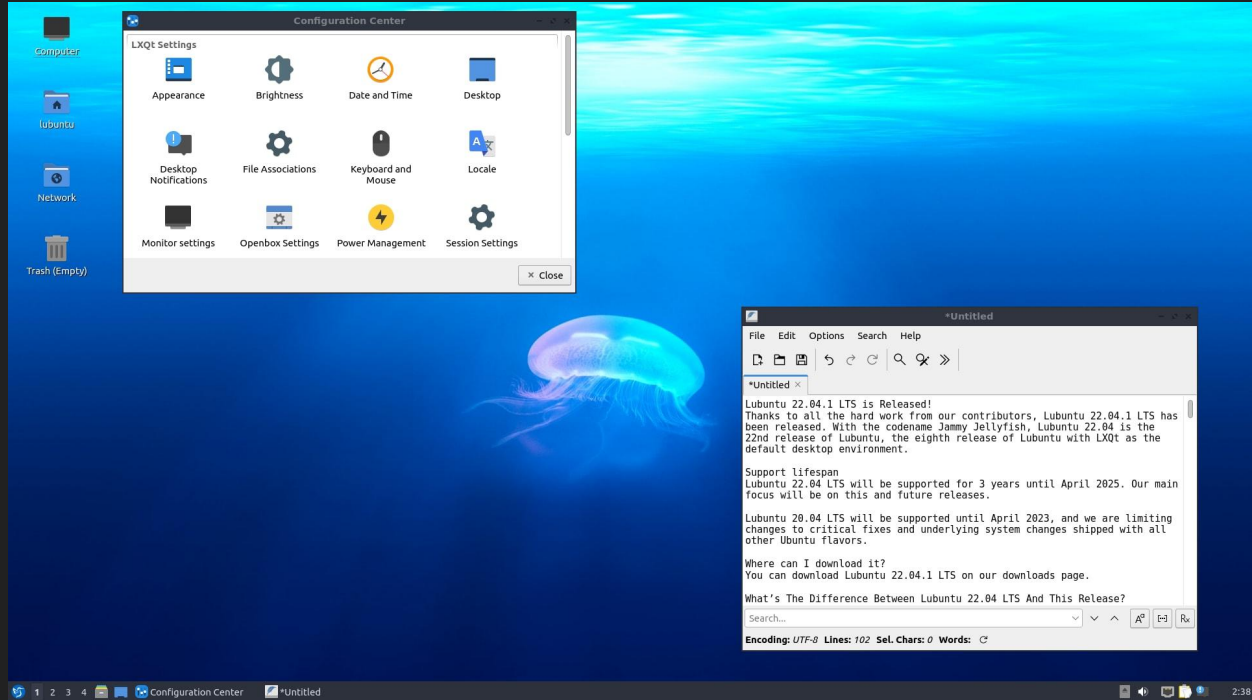
GNOME



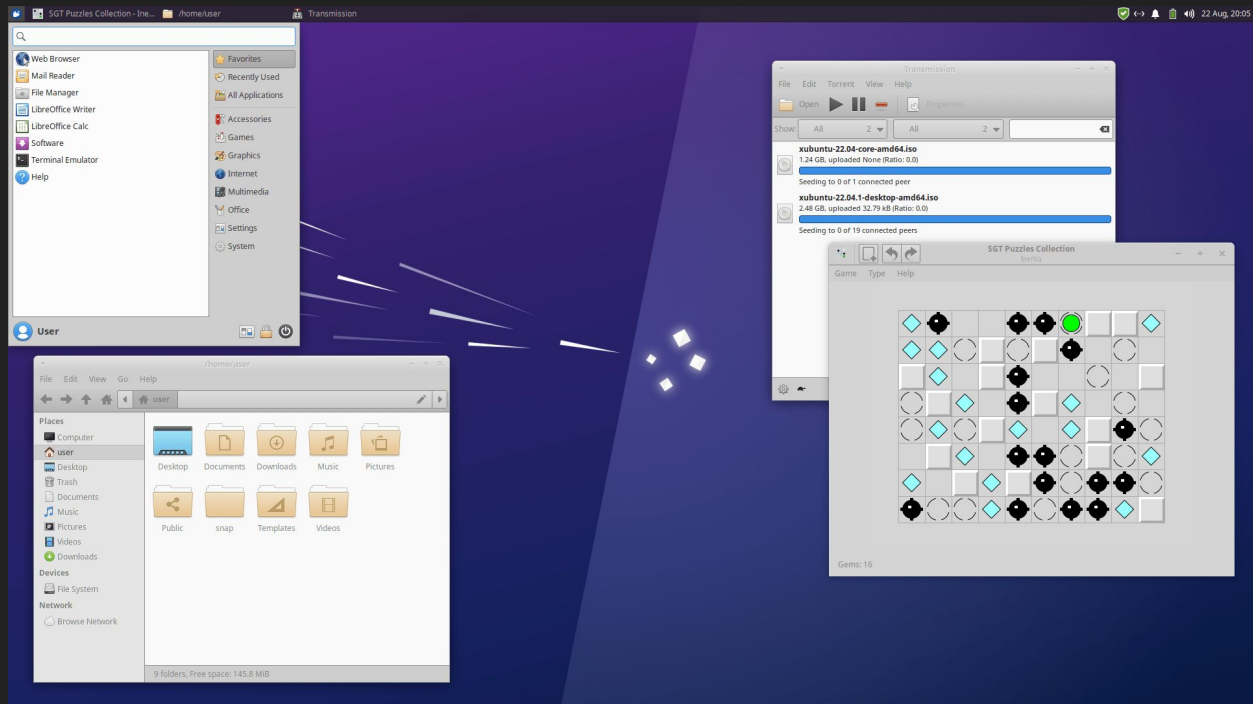
KDE Plasma



Kylin (UKUI)



LXQT



Xfce

...don't really matter.

Linux Software Repositories

Distro repositories:

- Ubuntu: apt
- Fedora: dnf
- Arch: pacman
- OpenSUSE: zypper

General repositories:

- Snapcraft: snap
- Flathub: flatpak

Portable files: AppImage

| Repository | Package format | Package manager |
|------------|----------------|-----------------|
| Ubuntu | .deb | apt |

Let's try installing Ubuntu!